

L1 ANSWER 1 OF 1 WPIX COPYRIGHT 2006 THE THOMSON CORP on STN
 ACCESSION NUMBER: 1986-177564 [28] WPIX
 DOC. NO. CPI: C1986-076309
 TITLE: Ultra high mol. wt. polyethylene - mfd. in two part
 polymerisation, gives mouldable prod. soluble in organic
 solvents.
 DERWENT CLASS: A17
 INVENTOR(S): KUROISHI, T; MATSUURA, K; MIYAZAKI, Y; SANO, A; YOKOYAMA,
 S
 PATENT ASSIGNEE(S): (NIOC) NIPPON OIL KK
 COUNTRY COUNT: 7
 PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN	IPC
EP-----186995	A	19860709	(198628)*	EN	22		
R: DE FR GB NL							
JP-----61148207	A	19860705	(198633)				
US-----4923935	A	19900508	(199023)				
JP-----94002776	B2	19940112	(199405)		6	C08F-010-02	

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
EP-----186995	A	1985EP-0309027	19851212
JP-----61148207	A	1984JP-0270181	19841221 <--
US-----4923935	A	1989US-0302564	19890126
JP-----94002776	B2	1984JP-0270181	19841221 <--

FILING DETAILS:

PATENT NO	KIND	PATENT NO
JP-----94002776	B2 Based on	JP-----61148207

PRIORITY APPLN. INFO: ***1984JP-0270181***
 *** 19841221***

REFERENCE PATENTS: A3...8730; EP-----13229; EP-----57352; FR---2394557;
 No-SR.Pub

INT. PATENT CLASSIF.: B01J-008-00; C08F-004-62; C08F-010-02; C08F-110-02

MAIN: C08F-010-02

SECONDARY: B01J-008-00; C08F-002-38; C08F-004-62; C08F-004-654;
 C08F-110-02

BASIC ABSTRACT:

EP 186995 A UPAB: 19930922
 Prodn. of ultra high mol. wt. polyethylene C having an intrinsic viscosity
 of 10-30 dl/g at 135 deg.C in decalin: (a) CH₂:CH₂ is polymerised with Mg,
 Ti (pref.) and/or V as a tri- tetra or penta valent cpd. and an
 organometallic cpd., and in the absence of H₂ or in H₂ at lower concn.,
 0-10 mol.%, 0-90 (pref. 20-80) deg.C and 0-70 kg/cm² to produce 70-99.5
 (pref. 75-99) pts. wt. polyethylene with intrinsic viscosity 12-32 dl/g.,
 (b) CH₂:CH₂ is
 polymerised or copolymerised with 0.1-5 mol.% alpha olefin (C) in the
 presence of H₂ at 35-95 mol.%, 40-100 (pref. 60-90) deg.C, and 0-70 kg/cm²
 to produce 30-0.05 (pref. 25-1) pts. wt. polythene with intrinsic

viscosity =.1-5 dl/g. Pref. in (a), catalyst=Ti cpd., $Ti(OR)_nX_{4-n}$ carried on Mg metal, double salts, mixed oxides, $-CO_3$, Cls and $-OHs.$, each contg. both a Si, Al or Ca metal, and a Mg atom, and cpds. obtd. by treating an inorganic cpd. with a S contg. cpd., a monocyclic or polycyclic hydrocarbon or a halogen contg. cpd. R=1-20C alkyl or aryl, or arlkyl, X=Cl, Br, I or F. n=0, 1, 2, 3 or 4; or a trivalent Ti cpd. obtd. by redn. of a Ti tetra halide with H_2 , Al, Ti or an organometallic cpd. of a Gp.I-III metal, or by reducing an alkoxy Ti halide $Ti(OR)_mX_{4-m}$ where n=1, 2, 3 with an organometallic cpd. of a Gp.I-III metal Pref. R_3Al , R_2AlX , $RAlX_2$, R_2AlOR , $RAl(OR)X$ or $R_3Al_2X_3$ where R_8X are as above. (C)=propene, butene-1, 4Me pentene-1, hexene-1, or octene-1.

USE - Engineering plastics material with high impact, wear resistance and self lubrication, useful in hoppers, silos, gears, linings, ski backings, sports and leisure supplies, readily soluble in organic solvent.

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FILE SEGMENT: CPI
 FIELD AVAILABILITY: AB
 MANUAL CODES: CPI: A02-A06B; A04-G02A; A04-G06A